Hepassocin, also known as hepatocyte-derived Fibrinogen-related protein-1 (HFREP-1), LFIRE1 or FGL1, is a member of the Fibrinogen family of proteins containing a C-terminal Fibrinogen-like domain. It is a secreted protein that exists as a homodimer and is exclusively expressed in the adult and fetal liver. Hepassocin strongly associates with Fibrin during clot formation and may also associate with Fibrinogen. It is upregulated during liver regeneration and functions as a regulator in liver cell growth. Hepassocin has mitogenic activity and may play a role in liver development and function. It has high sequence homology with Fibrinogen β and Fibrinogen γ, however it lacks a platelet-binding site, a Thrombin-sensitive site and a cross-linking region. Hepassocin is downregulated in hepatocellular carcinomas (HCC) and its level of expression in HCC highly correlates with the degree of tumor differentiation. This suggests that Hepassocin may have growth suppressor activity.

REFERENCES

STORAGE
For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

RESEARCH USE
For research use only, not for use in diagnostic procedures.

BACKGROUND
CHROMOSOMAL LOCATION
Genetic locus: FGL1 (human) mapping to 8p22-p21.3.

SOURCE
Hepassocin (JY19L) is a mouse monoclonal antibody raised against full length recombinant Hepassocin of human origin.

PRODUCT
Each vial contains 100 µg IgG1 in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer.

APPLICATIONS
Hepassocin (JY19L) is recommended for detection of Hepassocin of human and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RECOMMENDED SECONDARY REAGENTS
To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

PROTOCOLS
See our web site at www.scbt.com or our catalog for detailed protocols and support products.